

ABSTRACT

The present invention relates to genes associated with the tocopherol biosynthesis pathway. More particularly, the present invention provides and includes nucleic acid
5 molecules and proteins associated with genes that encode polypeptides associated with the tocopherol biosynthesis pathway. The present invention also provides methods for utilizing such agents, for example in gene isolation, gene analysis, and the production of transgenic plants. Moreover, the present invention includes transgenic plants modified to express the
10 aforementioned polypeptides. In addition, the present invention includes methods for the production of products from the tocopherol biosynthesis pathway as well as in production of plants that are drought resistant.